

What is Claimed is:

1. A method for transporting a network timing reference comprising:

identifying a set of DMT symbols; and

associating, at a modulation layer, the network timing reference with a subset of the DMT symbols.
2. The method of claim 1, wherein information is associated with a second subset of the DMT symbols.
3. The method of claim 1, wherein the set of DMT symbols is capable of transmitting information when not associated with the network timing reference.
4. The method of claim 1, wherein a bit allocation table of the subset of DMT symbols associated with the network timing reference is different than a bit allocation table of the set of DMT symbols not associated with the network timing reference.
5. The method of claim 1, wherein a bit allocation table of the subset of DMT symbols associated with the network timing reference is the same as the bit allocation table of the set of DMT symbols not associated with the network timing reference.
6. The method of claim 1, wherein any one or more of a plurality of subchannels in a bit allocation table are capable of transporting the network timing reference.
7. The method of claim 6, wherein the subchannels used to transmit the network timing reference are sent with a higher margin than the subchannels used to transmit information.
8. An information storage media comprising information for transporting a network timing reference comprising:

information that identifies a set of DMT symbols; and

information that associates, at a modulation layer, the network timing reference with a subset of the DMT symbols.

9. The media of claim 8, wherein information is associated with a second subset of the DMT symbols.

10. The media of claim 8, wherein the set of DMT symbols is capable of transmitting information when not associated with the network timing reference.

11. The media of claim 8, wherein a bit allocation table of the subset of DMT symbols associated with the network timing reference is different than a bit allocation table of the set of DMT symbols not associated with the network timing reference.

12. The media of claim 8, wherein a bit allocation table of the subset of DMT symbols associated with the network timing reference is the same as the bit allocation table of the set of DMT symbols not associated with the network timing reference.

13. The media of claim 8, wherein any one or more of a plurality of subchannels in a bit allocation table are capable of transporting the network timing reference.

14. The media of claim 13, wherein the subchannels used to transmit the network timing reference are sent with a higher margin than the subchannels used to transmit information.

15. A method of transporting a network timing reference comprising:

associating one or more network timing reference bits, at a modulation layer, on portion of one or more DMT symbols; and

transporting the one or more network timing reference bits to a modem.